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DIALOG(R)File 351:Derwent WPI  
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Food preservative and quality improving agent - comprises cinnamic acid  
and e.g. citric, malic, fumaric, sorbic or tartaric acid

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Number of Countries: 001 Number of Patents: 001

Basic Patent:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 57194775	A	19821130			198302	B

Priority Applications (No Type Date): JP 8175710 A 19810521

Abstract (Basic): JP 57194775 A

Agent contains cinnamic acid and an organic acid selected from  
citric acid, acetic acid, malic acid, fumaric acid, sorbic acid,  
tartaric acid, lactic acid and their salts, as effective ingredients.

Cinnamic acid and organic acid are pref. used in amt. 50-500 ppm  
and 500-5000 ppm on food respectively. Practically a powdery mixture of  
cinnamic and organic acid is used as it is, or in the form of its  
ethanol soln. It is combined in food material previously or in the food  
during or after processing.

Cinnamic acid shows antibiotic activity; by using it together with  
organic acid its antibiotic activity can be greatly increased  
synergically. The effective ingredients are safe and can be used for  
almost all kinds of foods to suppress the growth of microbes.

Title Terms: FOOD; PRESERVE; QUALITY; IMPROVE; AGENT; COMPRISE; CINNAMIC;  
ACID; CITRIC; MALIC; FUMARIC; SORBIC; TARTARIC; ACID

Derwent Class: D13; E14; E17

International Patent Class (Additional): A23L-003/34

File Segment: CPI

Manual Codes (CPI/A-N): D03-H02; E10-C02A; E10-C02E; E10-C04C; E10-C04D;  
E10-C04H; E10-C04J

Chemical Fragment Codes (M3):

\*01\* G010 G100 H7 H721 J0 J011 J1 J171 M280 M312 M321 M332 M342 M372 M391  
M414 M510 M520 M531 M540 M782 M903 M910 P200 P863 Q211 Q225 R023  
R036

\*02\* J0 J011 J1 J171 M210 M211 M262 M281 M320 M416 M620 M782 M903 M910  
P200 P863 Q211 Q225 R023 R036

\*04\* H4 H401 H402 H481 H482 H8 J0 J011 J012 J1 J171 J172 M280 M312 M321  
M331 M332 M340 M342 M343 M344 M349 M381 M391 M416 M620 M782 M903

M910 P200 P863 Q211 Q225 R023 R036

\*03\* H4 H401 H481 H8 J0 J013 J1 J173 M280 M313 M321 M332 M344 M349 M381

M391 M416 M620 M782 M903 M910 P200 P863 Q211 Q225 R023 R036

\*06\* H7 H724 J0 J011 J1 J171 M210 M215 M231 M262 M281 M320 M416 M782 M903

M910 P200 P863 Q211 Q225 R023 R036

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Derwent Registry Numbers: 0009-U; 0247-U; 0419-U; 0540-U; 0902-U; 0903-U;  
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